

CURRICULUM VITAE



Mohamed Ibrahim J Ibrahim
BSc, MSc, PhD

He received his first degree in Mechanical Engineering from Engineering Academy, Tajoura, Tripoli – Libya, 2000, and worked as an engineer in a governmental company for performing, operating, and maintenance until 2007. Then he worked as a Lecturer in the Department of Mechanical Engineering, Faculty of Technical Science, Sabha University until July 2014. Then he pursued his study for a master's degree at the Manufacturing Systems Engineering, Faculty of Engineering, Universiti Putra Malaysia (UPM). He was awarded an MSc degree in 2017. His research in Master degree was about the optimization of mechanical performance in terms of energy absorption of composite materials using experimental and numerical techniques (finite element analysis). Subsequently, he pursued his Ph.D. degree at the Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Putra Malaysia (UPM). His research was related to composite materials technology and materials selection. He was awarded a Ph.D. degree in 2019.

1.0 PERSONAL PARTICULAR

Full Name:	MOHAMED IBRAHIMJ IBRAHIM
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2.0 ACADEMIC QUALIFICATIONS

2.1 *Ph.D. in Mechanical Engineering (Mechanical and Manufacturing Engineering)*

2019, Universiti Putra Malaysia (UPM), Serdang, Malaysia.

Thesis title “*Characterization of Corn/Sugar Palm Fiber Reinforced Corn Starch Biopolymer Hybrid Composites*”.

2.2 *Master of Manufacturing Systems Engineering* July 2017, Faculty of Mechanical and Manufacturing Systems Engineering, Universiti Putra Malaysia (UPM).

Malaysia.

Thesis title “*Optimization of Interlocking Structure Made of Natural Fiber Composites*”.

2.3 *Bachelor of Mechanical Engineering* - September 2000, Faculty of Engineering Academy Tajura, Tripoli, Libya.

3.0 PUBLICATIONS – JOURNAL and CONFERENCE PAPERS

Journal articles

1. **Ibrahim, M. I. J.**, & Yusoff, M. Z. M. (2018). Optimization of Interlocking Structures Made of Flax Fiber Composites to Improve Its Energy Absorption Capability. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, 10, 1-17.
2. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. (2019). Extraction, Chemical Composition, and Characterization of Potential Lignocellulosic Biomasses and Polymers from Corn Plant Parts. *BioResources*, 14(3), 6485-6500. **[ISI index, Q2, IF=1.396]**
3. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. (2019). Physical, thermal, morphological, and tensile properties of cornstarch-based films as affected by different plasticizers. *International Journal of Food Properties*, 22(1), 925-941. **[ISI index, Q2, IF=1.398]**

4. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. (2019). Potential of using multiscale cornhusk fiber as reinforcing filler in cornstarch-based biocomposites. *International Journal of Biological Macromolecules*, 139, 596-604. **[ISI index, Q1, IF=4.784]**
5. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. (2019). Preparation and characterization of cornhusk/sugar palm fiber reinforced cornstarch-based hybrid composites. *Journal of Materials Research and Technology*. In Press, Corrected Proof. **[ISI index, Q1, IF=3.327]**

Conferences/ seminar

1. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. Thermal and Morphological Properties of Corn Husk and Stalk Fibers. *Proceeding of the 6th Postgraduate Seminar on Natural Fiber Reinforced Polymer Composites 2018*, 5th Dec 2018, Serdang, Selangor, Malaysia, pp. 28-31. ISBN: 978-983-44426-7-5.
2. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., & Zuhri, M. Y. M. Effect of Corn Stalk Reinforcement on The Mechanical Performance and Physical Properties of Cornstarch-Based Biocomposite Films. *Proceeding Seminar Enau Kebangsaan 2019*, 1-2nd April 2019, Hotel Aurora Boutique, Negeri Sembilan, Malaysia, pp. 66-72. ISBN: 978-983-44426-8-2
3. Saleh Naji Alsubari, Zuhri, M. Y. M. Sapuan, S.M., Ishak, M. R., & **Ibrahim M. I. J.**, Quasi-static Compression Behavior of Environmentally-friendly Interlocking Core Structures Made of Flax/Polylactic Acid Composite. *International Conference on Advances in Mechanical and Manufacturing Engineering*, UPM, 21-23rd October 2019, Langkawi, Malaysia.

Chapter in book

1. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., Zuhri, M. Y. M., & Edhirej, A. (2019). 2 Corn (maize)–its fibers, polymers, composites, and applications. *Biodegradable Composites: Materials, Manufacturing, and Engineering*, 10, 13. Walter de Gruyter GmbH, Berlin/Boston.
2. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., Zuhri, M. Y. M., & Edhirej, A. Processing and Characterization of Corn/Sugar Palm Fiber Reinforced Cornstarch Biopolymer Hybrid composites. *Advanced Processing, Properties, and Applications of Starch and Other Bio-Based Polymers*, (F. M. Al-Oqla and S.M. Sapuan), Elsevier, UK, to be published in 2019.

3. **Ibrahim, M. I. J.**, Sapuan, S. M., Zainudin, E. S., Zuhri, M. Y. M., & Edhirej, A. (2019). Characterization of Corn Fiber Filled Corn Starch Biopolymer Composites: Bio filler Reinforced Biodegradable Polymer Composites, Taylor & Francis/CRC Press 6000 Broken Sound Parkway NW Suite 300. *To be published in 2020*
4. Edhirej, A., Sapuan, S.M., Jawaid M., Ismarrubie N.Z., & **Ibrahim, M. I. J.** (2019). Characterization of Corn Fiber Filled Corn Starch Biopolymer Composites: biofilter Reinforced Biodegradable Polymer Composites, Taylor & Francis/CRC Press 6000 Broken Sound Parkway NW Suite 300. *To be published in 2020*

4.0 RESEARCH INTEREST

- 4.1 Crashworthiness analysis for automotive structure (Simulation, Experiment).
- 4.2 Composite materials characterization and evaluation of mechanical properties.
- 4.3 Natural fiber Composites, Polymer Composites, Lightweight Structures, and Impact.

5.0 COMPUTER SKILLS

- 5.1 Extensive knowledge of Microsoft Office, "Word, Excel, PowerPoint, OneNote."
- 5.2 Expert in Abaqus Code (Finite Element Analysis).
- 5.3 Tecplot software.
- 5.4 AutoCAD
- 5.5 Design of experiment (DOE)
- 5.6 EndNote
- 5.7 Data analysis (SPSS software)

6.0 Language

- 6.1 **Arabic Language:** Mother Tongue; Excellent in Reading, Writing and Speaking
- 6.2 **English Language:** Very good in Reading, Writing and Speaking
- 6.3 **Bahasa Malayu:** Passed Universiti Putra Malaysia exams of **BBM1401**

7.0 Honors and Awards:

- 7.1 Best paper on 6th postgraduate seminar on natural fiber reinforced polymer composites 2018, 5th December 2018, INTROP. UPM Serdang, Selangor, Malaysia.

8.0 Hobbies:

8.1 Reading

8.2 Exercise regularly

8.3 Enjoying outdoors activities

9.0 References (On Request)

9.1 Prof. Ir. Dr. MOHD SAPUAN SALIT

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9.2 Dr. Mohd Zuhri Bin Mohamed Yusoff

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